

# Accepted Manuscript

Polythiophenes with carboxylate side chains and vinylene linkers in main chain for polymer solar cells

Qi Wang, Xin Dong, Mu He, Miaomiao Li, Hongkun Tian, Jun Liu, Yanhou Geng



PII: S0032-3861(18)30159-9

DOI: [10.1016/j.polymer.2018.02.035](https://doi.org/10.1016/j.polymer.2018.02.035)

Reference: JPOL 20383

To appear in: *Polymer*

Received Date: 9 December 2017

Revised Date: 10 February 2018

Accepted Date: 14 February 2018

Please cite this article as: Wang Q, Dong X, He M, Li M, Tian H, Liu J, Geng Y, Polythiophenes with carboxylate side chains and vinylene linkers in main chain for polymer solar cells, *Polymer* (2018), doi: 10.1016/j.polymer.2018.02.035.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

# Polythiophenes with Carboxylate Side Chains and Vinylene Linkers in Main Chain for Polymer Solar Cells

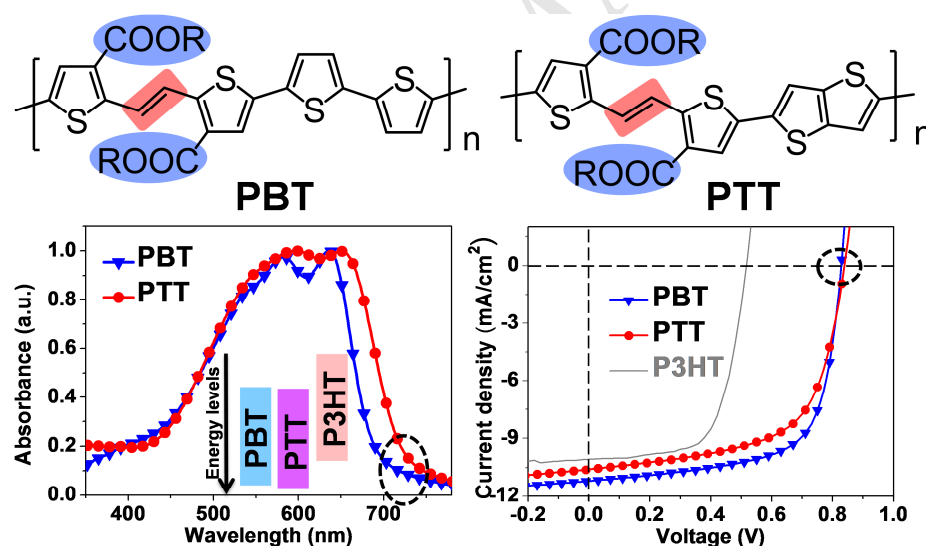
Qi Wang,<sup>a</sup> Xin Dong,<sup>b</sup> Mu He,<sup>b</sup> Miaomiao Li,<sup>a,\*</sup> Hongkun Tian,<sup>b</sup> Jun Liu,<sup>b</sup> Yanhou Geng<sup>a,c,\*</sup>

<sup>a</sup>School of Material Science and Engineering, Tianjin University, Tianjin 300072, P. R. China.

<sup>b</sup>State Key Laboratory of Polymer Physics and Chemistry, Chinese Academy of Sciences, Changchun 130022, P. R. China

<sup>c</sup>Tianjin Key Laboratory of Molecular Optoelectronic Science, Tianjin University, and Collaborative Innovation Center of Chemical Science and Engineering (Tianjin), Tianjin 300072, P. R. China.

## Graphical abstract



## Keywords

polythiophene, carboxylate, polymer solar cells

Download English Version:

<https://daneshyari.com/en/article/7820632>

Download Persian Version:

<https://daneshyari.com/article/7820632>

[Daneshyari.com](https://daneshyari.com)